

What's In It For Me? CEOs Whose Firms Are Acquired

Jay Hartzell,^{*} Eli Ofek,^{**} and David Yermack^{***}

May 2001

^{*} Corresponding author. Department of Finance, The University of Texas at Austin, Austin, TX 78712.
Email: Jay.Hartzell@bus.utexas.edu. Phone: (512)471-6779. Fax: (512) 471-5073.

^{**} Department of Finance, Stern School of Business, New York University. Email: eofek@stern.nyu.edu.
Phone: (212) 998-0356. Fax: (212) 995-4233.

^{***} Department of Finance, Stern School of Business, New York University. Email:
dyermack@stern.nyu.edu. Phone: (212) 998-0357. Fax: (212) 995-4220.

What's In It For Me? CEOs Whose Firms Are Acquired

Abstract

We study benefits received by target company CEOs in completed mergers and acquisitions. These executives obtain wealth increases with a median of \$4 to \$5 million and a mean of \$8 to \$11 million, roughly in line with the permanent income streams that they sacrifice. CEOs receive lower financial gains from those transactions in which they become executives of the buyer, suggesting that tradeoffs exist between the financial and career-related benefits they extract. We find very high rates of turnover both at the time of the merger and, for those executives who stay, for several years post-merger. Regression estimates suggest that target shareholders receive lower acquisition premia in transactions that involve extraordinary personal treatment of the CEO.

What's In It For Me?

CEOs Whose Firms Are Acquired

1. Introduction

Mergers and acquisitions often hinge upon a transaction's financial, employment and other benefits for top managers. Self-interested executives bargain not only over the price to be paid to target shareholders, but also over such items as who will occupy the CEO position in the merged company, who will sit on the board of directors, the location of headquarters, whether the company name will change, and especially, executive compensation. The news media has reported the collapse of numerous high-profile merger discussions because of managers' inability to reach compromises over these personal benefits, indicating that severe agency problems can prevent economically beneficial transactions from occurring.¹ Further stories have reported elaborate, lucrative packages of personal benefits negotiated by target CEOs as conditions for agreeing to their firms' acquisition.²

¹ Salpukis (1999) describes how the proposed acquisition of Texaco Inc. by Chevron Corp. initially fell through because Chevron's CEO "was not willing to share power with" his Texaco counterpart. Burton and Tanouye (1998) discuss the failure of the merger of American Home Products Corp. and Monsanto Co. due to managerial disagreements that "ranged from who should be assigned to corporate headquarters to compensation for top executives." The announcement of this deal's collapse caused a one-day \$14 billion decline in the companies' joint market capitalization. Lipin (1996) provides several additional examples.

² For example, Hechinger (1999) reports that as part of his company's merger agreement with Fleet Financial Group, the CEO of BankBoston Corp. extracted a promise that he would become CEO of the buyer at the end of 2001 unless 80 percent of the board objected at that time to his appointment. If so, the company would be required to pay \$15 million to the CEO's charitable foundation.

We study a sample of several hundred completed U.S. acquisitions in the late 1990s, documenting the benefits, financial and otherwise, received from the transactions by the CEOs of the target companies. We expect that target CEOs will attempt to extract large personal benefits from merger transactions to compensate for the losses of compensation, power, and prestige that occur when they agree to sell their companies. These benefits might take the form of either increased financial wealth or attractive positions in the management team of the buyer. In addition, we expect that CEOs might be willing to compromise the interests of their own shareholders in pursuit of these benefits, possibly negotiating less favorable acquisition terms in those deals in which they personally fare well.

We focus on CEOs for several reasons. First, in a typical firm, the CEO is frequently the largest stock and option holder, meaning they have the largest potential gain due to a successful merger. CEOs typically bear the highest personal costs of a merger as well, since giving up the top job will likely lead to a loss of prestige and future compensation. Second, due to CEOs' power and influence over management and the board, CEOs are likely to have a fundamental role in determining the outcome of merger negotiations. Third, previous research has highlighted the importance of target CEO characteristics in mergers and acquisitions. For example, Cotter and Zenner (1994) discuss the effects of tender offers and resistance by the target firm on top-executive wealth. Studies including McConnell and Martin (1991), Agrawal and Walkling (1994) and Hadlock, Houston and Ryngaert (1999) have shown a link between the market for top management and the market for corporate control.

We collect information on such variables as stock and option appreciation, golden parachute payments, additional cash bonuses awarded at the time of the transaction, the CEO's

position in the new firm, his role on the new board of directors, the survival rates of those CEOs who remain with the merged firm, and, for those CEOs who leave, their subsequent employment histories. While other papers have studied some of these variables, we believe ours is the first to explore them in a unified framework in which we can calculate comprehensive measures of CEO gains from acquisitions and evaluate tradeoffs among the different pieces.

Figure 1, a schematic of the career paths of the target CEOs in our sample, illustrates many of our findings. The figure indicates an overwhelming incidence of job losses for target CEOs: about two-thirds of this group leave their firms at the time of the merger, and of the one-third who remain employed, 36 percent do not survive for the first two post-deal years. Those CEOs who exit appear to earn substantially higher financial returns from the merger, however, as shown in the summary statistics to the right of the terminal nodes. This suggests a clear tradeoff between financial rewards and job offers in the buyer, a conjecture supported by our more detailed analysis below. Only a very small number of target CEOs become top executives of the acquirer. Job security is quite low for all former CEOs who remain with the merged firm, with post-merger turnover rates in the neighborhood of 20 percent to 30 percent annually (unconditional turnover rates for top managers are close to 10 percent ordinarily). The overwhelming majority of those target CEOs who exit the firm do not obtain further employment; a large number probably retire voluntarily due to their multi-million dollar gains from the merger.

The CEOs in our sample obtain total financial gains with a median value of approximately \$4 to \$5 million and a mean of \$8 to \$11 million. While the distribution exhibits an upper tail that includes truly large windfalls for some target CEOs, for most executives these monetary benefits appear roughly in line with the permanent income streams that they lose from the disappearance

of their prior jobs. These results are somewhat surprising to us, since the mid-1990s time frame of the sample implies that we have an overwhelming majority of friendly acquisitions (Schwert, 2000) in which CEOs could likely have chosen to keep their firms independent.

We present regression estimates suggesting that target CEOs negotiate lower acquisition premia for their own shareholders in transactions that involve extraordinary personal treatment of the CEO. These transactions are characterized by special payments to the CEO at the time of the merger, as well as high-ranking managerial posts in the buyer and membership on the buyer's board of directors.

The remaining sections of the paper are organized as follows. Section 2 reviews related literature about managerial characteristics and corporate control activity. Section 3 describes our sample selection and data gathering. Section 4 describes the gains received by target CEOs as a result of the acquisitions, and section 5 presents a regression analysis of the tradeoffs among different types of gains. Section 6 concludes.

2. Literature review

The notion that executives extract personal benefits from managing the firm is common in the corporate finance literature. Many theoretical papers use personal benefits of control as a modeling assumption; for two recent examples, see Fluck (1999) and Berkovitch and Israel (1996). These benefits can cause agency problems that reduce the value of the firm, and the market for corporate control provides a vital mechanism for mitigating these problems.

Our investigation of the benefits received by target CEOs in completed mergers complements a previous literature studying managerial incentives in corporate control activity.

Much of the prior literature documents target management's ability to take actions in their own interests rather than those of the shareholders at various stages of the acquisition process. For example, a firm's attractiveness as a takeover candidate may be decreasing in managerial ownership, due to management's reluctance to give up their positions or control of the firm (e.g., Mikkelson and Partch, 1989). Conditional on receiving an offer, managers may resist the proposed combination in order to protect their personal benefits at the expense of shareholders' wealth (e.g., Cotter and Zenner, 1994).

Personal stock ownership represents one clear source of potential variation in target managers' attitudes toward selling their firms. Stulz (1988) argues that higher managerial ownership results in two competing effects. First, firms with higher ownership are less likely to be subject to an acquisition attempt due to the CEO's voting control. Second, conditional on an attempt being made, firms with higher managerial ownership are expected to receive a higher price due to the CEO's bargaining power. Empirical evidence has been largely consistent with these implications. For example, Song and Walkling (1993) find that acquisition targets have lower ownership than their industry's average, or corresponding matching firms. For attempts that are eventually successful, managerial ownership is positively related to abnormal returns on the target's stock over the period from announcement through outcome. Mikkelson and Partch (1989) find no relation between the likelihood of a successful acquisition and management's control of the target. This lack of a relation, however, is due to two offsetting effects. The probability of receiving a takeover offer is decreasing in management ownership, but the probability that an offer (if made) leads to a change in control increases with management ownership.

Related work has documented relations between variables other than management ownership and the likelihood of takeovers and acquisitions. For example, Shivdasani (1993) argues that the board of directors acts as a substitute mechanism for corporate control, while unaffiliated blockholding acts as a complementary mechanism. He finds that the likelihood of a hostile takeover attempt is decreasing (increasing) in the ownership stake of the outside directors (affiliated blockholders). Aside from governance and incentive variables, many studies have shown a relation between firm performance and the likelihood of being an acquisition target (e.g., Palepu, 1986).

Once an offer has been made, management's response depends on the incentive mechanisms in place. Cotter and Zenner (1994) and Walkling and Long (1984) argue that management's resistance to tender offers appears driven by concern over its own interests rather than those of shareholders. Both studies document that management resistance is negatively related to the change in managerial wealth, an effect attributed by the former study to the change in wealth due to managerial share ownership. Further, Cotter and Zenner (1994) show that management gains on average from resisting tender offers (while shareholders do not), and that the probability of a successful offer is increasing in the change in managerial wealth.

Hadlock, Houston and Ryngaert (1999) argue that managers' incentive to act in their own interests also affects the likelihood of being acquired. They show that for a sample of bank acquisitions, banks with higher ownership are less likely to be acquired. This result is especially strong for observations where the target managers leave the firm following the acquisition. They interpret the results as consistent with the hypothesis that the degree of managerial entrenchment is an important determinant of the probability that a bank is acquired.

Wulf (2001) studies a sample of “mergers of equal” between firms with roughly similar size. She finds that target shareholders’ stocks exhibit lower abnormal returns at the time of merger announcements if a “CEO succession agreement” is negotiated as part of the transaction. However, her definition of “succession agreement” is extremely broad, as it covers any arrangement in which either the CEO or chairman position is reserved for the target’s CEO; such agreements could, for example, call for the retirement of the target CEO after a nominal amount of time in office, or confine him to ceremonial responsibilities as a non-executive chairman.

Hadlock et al. (1999), Agrawal and Walkling (1994), and Martin and McConnell (1991) document high rates of managerial turnover for target firms following corporate control activity. Hadlock et al. find that 53.6 percent of their sample's top executives leave the banking organizations within two years of the date the merger agreement is finalized. Agrawal and Walkling (1994) calculate the retention and dismissal rates of CEOs for a set of firms receiving takeover bids. They find that only 45 percent of the target CEOs are retained one year after the bid. Successful bids result in even larger departure rates; for this subsample, 65 percent of the CEOs are not employed as senior executives in any public corporation one year after the bid. Martin and McConnell focus on turnover of top managers of targets of successful tender offers. They find a turnover rate of 41.9 percent for the target's top manager in the year following the takeover, and 19 percent during the second post-turnover year. They classify takeovers in which the target's top executive leaves the firm as disciplinary. They then show that disciplinary takeovers are associated with poor performance by the target prior to the tender offer, while non-disciplinary takeovers are not. Additionally, gains to both bidders and targets are independent of the type of takeover (disciplinary or non-disciplinary).

Agrawal and Walkling (1994) and Harford (2000) consider the effects of takeover bids on management and directors in terms of Fama's (1980) notion of "ex post settling up." Agrawal and Walkling, studying a sample of target CEOs between 1980 and 1986, find that post-bid changes in compensation are negatively related to pre-bid abnormal compensation. They interpret this as consistent with the view that the labor market uses information produced by the takeover process to discipline managers. Harford finds evidence consistent with directors also experiencing ex post settling up following takeover bids that occurred between 1988 and 1991. He shows that outside directors generally fare worse financially than inside directors following the bid, and the outcome is related to both pre-bid performance and the target's reception of the offer. Specifically, outside directors of poorly performing firms fare worse in the directorial labor market, especially if the target rebuffs the offer. If the firm accepts the offer, the directors' losses are mitigated.

Mørck, Shleifer, and Vishny (1988) argue that disciplinary takeovers typically appear to be hostile in nature, while mergers for synergistic reasons tend to be friendly. They find that characteristics other than financial incentives of target managers differ across these two types of deals. Segmenting acquisitions into friendly and hostile, they document a relation between managerial ownership and the type of acquisition. Compared to hostile mergers, friendly acquisitions are associated with greater stock ownership by directors and officers, and increased incidence of founding family members managing the target firm. Large managerial ownership appears to encourage friendly acquisitions, but not significantly discourage hostile ones. The performance of friendly targets is basically indistinguishable from that of non-targets in their sample, while hostile-takeover targets are associated with poor relative performance. Mørck et al.

(p. 104) interpret their evidence as "consistent with the view that hostile targets and friendly targets are very different types of companies."

While we focus on the incentives of the target firm's management, a separate literature has analyzed the incentives of the acquiring firm's management. A recent example is Datta, Iskandar-Datta, and Raman (2001), who find a link between incentive compensation and the results of firms' acquisitions. Specifically, the authors find that as the the ratio of management's option compensation to total compensation increases, acquisition premiums decrease, announcement returns increase, and post-acquisition performance improves. They also find that firms whose managers receive more equity-based pay acquire different types of firms; their targets have larger market-to-book ratios and their mergers lead to greater increase in stock-price volatility.

3. Sample selection and data description

We analyze a sample of 311 transactions identified from the mergers and acquisitions database of Securities Data Company. We begin with all completed U.S. mergers with announcement dates between January 1, 1995, and December 31, 1997. Given the time frame studied, the large majority of deals are friendly acquisitions as discussed below. We require that (i) both firms be publicly traded and listed on the Center for Research in Securities Prices database; (ii) both have market capitalizations exceeding \$100 million four weeks prior to the announcement date; (iii) the buyer purchase at least 90 percent ownership of the target; and (iv) the ratio of the two firms' market capitalizations lies within the range of 0.10 to 10.00, to rule out transactions with extreme size disparities in which the target CEO would have little bargaining

power. These screens yield a candidate sample of 320 deals. We drop eight observations in which the acquiror already held a dominant ownership position in the target, and one transaction involving a Canadian firm that was not required to meet the Securities and Exchange Commission's filing requirements.

We focus our data gathering efforts on the remaining 311 target companies and their CEOs. For each of these, we attempt to obtain information from three SEC filings: (i) the Proxy Statement, Form 10-K or similar document containing ownership and compensation data in advance of the last annual meeting before the acquisition announcement; (ii) the Proxy Statement, Form S-4, or other document (if any) filed in connection with the transaction; and (iii) the first Proxy Statement of the acquiring company filed after the merger becomes effective. Our final sample for regression analysis includes information about 239 target CEOs, meaning that we have missing values for at least one variable for 72 out of 311 companies, or 23 percent. The main sources of missing values are variables related to golden parachutes and related merger payments (missing for 39 CEOs), stock and option ownership data (missing for 26 CEOs), and cash compensation data (missing for 22 CEOs).

Table 1 presents descriptive statistics about the CEOs in our sample companies. The typical CEO is about 54 years old, with median stock and option ownership of 0.8 percent and 1.1 percent of the company's shares outstanding, respectively (mean values are slightly higher). The median salary + bonus cash compensation for CEOs in the year prior to the acquisition is about \$521,000 (mean \$798,000). Many of the CEOs share power with at least one other top executive: in 30.5 percent of the firms someone else holds the title of chairman of the board, while in 28.5 of the sample some other executive serves as president of the company. We are unable to

calculate statistics about the tenure in office of many CEOs, since a significant proportion of the sample companies disclose only that their CEOs have served for more than five years. Our sample is almost equally split between CEOs who have served less than five years and five or more years.

Information about our sample of transactions appears in Table 2. The median target firm has market capitalization of \$386 million (mean \$1.28 billion), measured one month prior to the date of the first offer made by the buyer. The ratio of the target's market cap divided by the buyer's has a median of 0.317 (mean of 0.442), indicating that some size disparity exists between the two companies in most of our transactions, but not to a severe extent. Just 2.6 percent of our transactions begin with unsolicited bids, according to SDC.

We measure the takeover premium to target shareholders using information from both SDC and CRSP. SDC reports a median premium of 30.4 percent (mean of 34.8 percent) over the four weeks prior to the transaction announcement. This statistic assumes that the deal will ultimately close according to the terms announced in the merger agreement. If the consideration paid to target shareholders is stock in the buyer, the SDC premium uses a pre-announcement value of the buyer's stock price. We calculate an alternative measure of the takeover premium from the CRSP database, measuring the stock's run-up over the 20 days prior to the announcement, and we find lower premia with a median of 21.1 percent (mean of 22.7 percent). These smaller gains in target equity value might capture a variety of effects, including a post-announcement decline in the buyer's stock price, skepticism that the deal will be completed according to its announced terms, or the time value of money if the approval process is expected to be lengthy.

4. Benefits received by target CEOs

Table 3 presents more detailed information about the wealth increases experienced by target CEOs as well as their post-merger role in the governance of the buyer company. We estimate that CEOs earn a median of approximately \$4 to \$5 million in increased wealth (mean of \$8 to \$11 million) as a result of the acquisition, depending on whether we use the 20-day CRSP or four-week SDC premium as the basis for our calculations. Maximum values run into the hundreds of millions of dollars. Data in Table 3 indicate that for the median CEO, the total wealth gains equal roughly six to eight times annual cash compensation (10 to 15 times for the mean CEO). In the context of the high rates of CEO departure described below, these wealth gains appear to represent a rough substitute for the present value of compensation the CEOs might have expected to receive if they had remained in their jobs until retirement, something that we explore further in regression analysis.

4.1 Stock and option holdings

The largest source of wealth increase comes from appreciation of the CEO's direct stockholdings, which we calculate by multiplying the percentage acquisition premium by the CEO's pre-announcement equity ownership value. These calculations indicate a median CEO stock appreciation of slightly more than \$1.3 million, with a much higher mean of about \$4.2 million.

For appreciation of the CEO's options, data limitations force us to calculate an upper bound; we assume that all options are at- or in-the-money prior to the transaction, and we

multiply the raw dollar value premium per share by the number of options held. This calculation assumes that all options are “cashed out” via forced exercise at the time of the transaction, which is quite common practice according to our readings of SEC filings. Our analysis shows median and mean option gains of about \$230,000 and \$656,000, respectively, only about one-sixth as large as the corresponding statistics for direct stock appreciation.

4.2 *Golden parachutes and related merger payments*

CEOs also obtain significant merger-related wealth increases from golden parachutes and similar payments. Sixty-nine percent of the CEOs in our sample have golden parachute arrangements in place, according to the proxy statements filed in the year prior to the acquisition. The typical structure of these incentive plans calls for a lump-sum payment equal to a multiple of the CEO’s salary and bonus prior to the deal (for tax reasons, this multiple equals three in a large number of cases). We calculate the parachute payout to CEOs by applying the formula from each company’s golden parachute plan to the CEO’s cash salary and bonus in the year prior to the deal.³ Including the 31 percent of observations with zero parachute payments, CEOs receive a median of \$900,000 (mean of \$1.465 million) from this source.

For a non-trivial fraction of the CEOs in our sample, 12.1 percent, the parachute payments

³ This calculation simplifies the data in two respects. First, some parachute payouts are based on cash compensation not in the year prior to the transaction, but instead according to a more elaborate formula such as the maximum for the three years prior to the transaction. The diversity of these approaches would make our calculations prohibitively complex, so we use the final year’s compensation to keep the analysis manageable. Second, we make an assumption that all parachutes are actually triggered by the mergers and acquisitions in our sample. This may not be strictly true if certain deals do not qualify as “changes in control” necessary to activate the parachutes. However, we do not have enough information to make this determination conclusively for many transactions, and we observe that in a large number of SEC merger filings that companies go out of their way to resolve any ambiguity by stipulating that a change in control has occurred for purposes of golden parachute payments. Our treatment of parachute payments in this way means that our estimates probably represent upper bound on the amount that CEOs actually obtain.

are augmented by the target's board of directors at the time that it approves the merger. In these cases, boards vote to increase the CEO's parachute value and shareholders learn of the change after the fact from an SEC filing. The mean value of the CEO wealth increase from this source is about \$393,500; dividing this figure by the frequency of .121 indicates that when boards do vote to augment the CEO's parachute, the average value increase is about \$3.25 million.

Separately from golden parachute payments, some firms make special cash payments to their CEOs as part of the terms of the merger. We find these additional payments in 74 of 272 cases, or about 27.2 percent of the sample. The mean CEO wealth increase from this source is about \$1.2 million; dividing by the frequency of .272 indicates that the average special merger bonus equals \$4.41 million. We collect information about firms' stated rationales for these additional payments to CEOs. Twenty-eight cases purportedly represent consulting agreements, and 26 more payments are characterized as non-competition agreements between the CEO and the buyer. An additional 11 cases represent payments made in consideration of the cancellation of the CEO's employment agreement or other contract rights. Other payouts are described as a "stay bonus" (5 observations), "retention bonus" (3), "special service recognition bonus," "signing bonus," and "bonus" (2 each), and "transition bonus," "closing bonus," and constructive change-in-control bonus (1 each).

4.3 Comparison of CEO financial gains with earlier studies

Our analysis of CEO financial benefits from acquisitions can be contrasted with information from two papers studying takeovers in earlier periods. Cotter and Zenner's (1994) study of managerial resistance to tender offers includes a subsample of 99 completed acquisitions

in 1989-90. Firms in their subsample are not directly comparable to ours, as they have much smaller mean market cap of \$663 million. The characteristics of the acquisitions are also quite different, with a significant number of hostile transactions (36 percent) and much larger takeover premia (a mean of 65 percent). The authors report that the top executive in these acquired companies obtains gains on stock and option holdings with a mean value of \$14.1 million, and golden parachute payments with a mean of \$0.9 million, numbers that are quite close to our results. While these CEOs run smaller firms, they own significantly more stock (a mean of 7.5 percent of shares outstanding) than our sample CEOs; this ownership level combined with the larger premia received make their financial gains comparable to those in our study. Cotter and Zenner's executives earn mean cash compensation of \$496,000 annually, meaning that their merger gains are approximately 30 times annual pay, a larger multiple than found for our CEOs.

Walkling and Long (1984) also study managerial resistance in a sample of 95 tender offers between 1972-77. Unfortunately, their paper does not disaggregate managerial wealth effects based upon the success of the offers, but their earlier sample exhibits far lower financial gains for CEOs. The authors find an average wealth change for the top-ranked executive from stock and option appreciation of \$713,750 for uncontested offers and \$192,000 (\$161,210) for contested, or \$505,050 for the unified sample. This gain represents an average of 8.6 times the annual salary of these managers. The gain may be lower due to the less widespread use of stock options as managerial incentives during the early 1970s.

Agrawal and Walkling (1994) detail severance payments for 13 target CEOs who left their firms after a takeover bid. They estimate an average present value of \$2.3 million for these payments. In contrast, we estimate that CEOs receive a mean value of about \$3.1 million from

parachute payouts, parachute augmentations, and special merger bonuses.

4.4 Target CEO's subsequent role with the buyer

In addition to the impact of an acquisition on their personal wealth, CEOs might agree to the sale of their firms because of the prospect of an important position as an executive in the merged company.

More than half of the target CEOs in our sample initially remain with the buyer in some capacity. Panel B of Table 3 indicates that just over 50 percent of target CEOs accept jobs as officers of the merged firm (including non-executive chairman and vice chairman of the board), similar to the acquisition-related turnover data reported by Hadlock et al. (1999) and Martin and McConnell (1991). Additionally, 57 percent of target CEOs join the board of directors of the buyer. This is notably higher than the survival of CEOs as directors documented by Harford (2000), who finds that 27 percent of CEOs get board seats; the disparity may be due to the greater frequency of hostile acquisitions in Harford's sample. A small number of the target CEOs play top leadership roles in the merged firm: nine take over the buyer's CEO position, 15 serve as president and/or chief operating officer, and ten become non-executive chairman of the board.

Further data in Panel B indicate that target firms obtain additional governance-related considerations. Targets place a median of two directors (mean of 2.3) on the board of the buyer, one of whom is usually but not always the target's CEO. The buyer's board is controlled one-sixth by directors from the target subsequent to the median transaction. In about one-seventh of all transactions, the buyer agrees to change the company name, generally to incorporate part of the target's name.

Table 4 presents information about the fate of CEOs who remain with the buyer. Compensation becomes higher for these executives, as their salaries rise by a median of 8.6 percent (mean of 17.6 percent) and their bonuses increase by a median of 19.4 percent (mean of 34.3 percent). However, the survival rates for target CEOs are strikingly low. We read the first proxy statement filed by the buyer in the aftermath of the merger to determine whether target CEOs who had taken a position in the merged firm are still in place; for unclear cases, we also consulted 10-K filings, news reports, and related sources. After one year, the fraction of target CEOs serving as executives of the buyer drops from .503 to .344, meaning that only 65.6 percent of ex-CEOs survive their first year in office as an executive of the target.

Panel B of Table 4 presents more detailed data about the survival rates of target CEOs who become executives of the parent. We separate these officers into four gradations: (a) CEO, president, and chairman; (b) other executive officers; (c) executives in subsidiaries of the buyer (such as CEOs who remain as CEOs of the target once it becomes wholly owned by the buyer); and (d) vice chairman of the board, a title that usually carries little or no operating responsibility. We extend our analysis by reading proxy statements filed for the three years after the acquisition.⁴ All categories of executives have extremely high departure rates. First-year departure rates range from 23.1 percent for officers in the top-three category to 59.3 percent for vice chairmen. After three years, 67.3 percent of top-three offices and 78.3 percent of subsidiary executives are gone, and departure rates are similarly high for vice chairmen and executives in other positions.

Data are similar but not quite as dramatic for ex-CEOs serving on boards, as just 77.6

⁴ A certain number of companies disappear from our analysis, either because the buyer itself is acquired by a third firm, or because not enough time has passed for three years of data to accumulate.

percent of this group remain as directors after 1 year.

These turnover rates far exceed those found in most studies of CEOs and corporate directors. For comparison purposes, Parrino (1997) reports unconditional turnover rates for CEOs of 12.2 percent annually, while data in Shivdasani and Yermack (1999) indicate an unconditional turnover rate for directors of about 9 percent annually. Our results are more in line with Gilson's (1990) presentation of very low survival rates for officers and directors in financially distressed firms.

Some of the ex-CEOs who do not survive as executives of the buyer collect substantial severance packages (these do not enter into our calculation of merger-related wealth changes discussed above). Of the 146 ex-CEOs who we identify as becoming executives of the buyer, 48 are no longer listed as executives in the first proxy statement filed after the transaction. Of these 48, 37 collect severance payments with a median value of \$1.5 million, mean of \$3.77 million, and maximum of \$30 million.

One reason for the high turnover rates of target CEOs after they join the buyer is that some of their appointments are made with pre-specified limited time horizons. We find 18 such cases out of the 146 CEOs who become executives of the buyer, a rate of about 12 percent. The life of these agreements range from a few months (until the next annual meeting) to five years.

For those CEOs who leave, their exit from the firm very often represents the end of their careers. We tracked the future employment of all exiting CEOs in our sample by using on-line keyword searches of SEC filings and the Dow Jones News Service. As shown in Figure 1, we find that the large majority of CEOs who leave – whether at the time of the merger or within the two-year period thereafter – end up either retired, working in a non-profit or government job, or

simply vanished from our large array of data sources. A smaller group become investors or start-up entrepreneurs. About one-sixth of the total sample eventually end up in executive posts in other firms, the large majority as CEOs.

We find that some target CEOs negotiate explicit succession agreements to secure their positions in the new firm, but these agreements are generally not honored. In four cases, the target CEO becomes the CEO of the buyer but is required to surrender the job within a specified period; in three additional cases, the target CEO becomes chairman and chief operating officer of the buyer, with the stipulation that he will ascend to the CEO position within a certain period. In only one instance of these seven (the merger of Nynex and Bell Atlantic) did the CEO position ultimately change hands as called for in the original agreement.⁵

5. Regression analysis

When CEOs bargain with the acquiror over acquisition terms that affect them personally, we conjecture that they engage in tradeoffs between cash payments, their position in the merged company, board seats, and other personal benefits. We expect that these tradeoffs are influenced by personal characteristics of CEOs, especially age (a proxy for the time left until expected retirement) and the extent to which they dominate the corporate governance of the target firm.

A second set of more nefarious tradeoffs may also exist. Target CEOs might be expected to sell the firm at an attractive price if their personal benefits from the transaction are large. Since

⁵ In two further cases the agreement arguably became moot, as one controversial CEO was prevented by government utility regulators from taking office, and another negotiated the sale of the firm before the date at which he was due to step down. News reports have indicated that an eighth succession “handshake” agreement was negotiated for one of the mergers in our sample (Morgan Stanley - Dean Witter) but not disclosed at the time of the deal. This agreement also was not implemented.

a low takeover premium for target shareholders would also depress the CEO's own stock and option appreciation, we might expect CEOs to accept lower takeover premia only if they receive prominent jobs in the management of the buyer or special compensation arrangements not directly related to equity value.

We conduct regression analysis in an attempt to illuminate the relative magnitude of some of these tradeoffs. Our regressions test several hypotheses about patterns in which we expect CEOs to seek to extract personal benefits from the buyer:

1. CEOs who do not become officers of the acquiror should obtain greater monetary gains from the acquisition, since they effectively surrender the permanent income stream associated with their former positions. This relation might be mitigated if the CEO has strong employment possibilities outside the firm.
2. CEO financial gains should be inversely related to the prominence of the CEO's new position in the buyer, if any.
3. Older CEOs should extract lower monetary benefits, since the present value of the lifetime income stream they surrender is lower.
4. CEOs with greater bargaining power should obtain greater personal benefits. We measure bargaining power in two ways: (i) the ratio of the market capitalization of the target relative to that of the buyer; and (ii) the percentage equity ownership of the target CEO in his own firm.
5. CEOs who do become top officers of the acquiror or receive other forms of favorable treatment should be expected to agree to transactions with lower prices paid to target shareholders.

Tables 5, 6 and 7 presents results of OLS regressions that test these hypotheses.

5.1 Relation between CEO financial gains and subsequent position in the firm

In Table 5, the dependent variable for the model in the first column equals the total

monetary gains from all sources, including stock and option appreciation, golden parachutes, augmented parachutes, and additional deal bonuses. Explanatory variables include dummy variables for whether the CEO becomes an officer or director of the target, CEO age, the market capitalization of the target, the ratio between the target's and buyer's market caps, the percentage ownership of the target CEO, and the excess return earned by the target's stock in the year prior to the acquisition (measured as the raw stock return minus the CRSP value weighted index). The right column shows the same model, but with the dependent variable equal to direct cash payments to the CEO, excluding stock and option appreciation. We find evidence that the CEO's total monetary gains are lower when he becomes an officer of the target, with an estimate of -\$4.1 million that is significant at the 6 percent level. However, the estimate falls to -\$1.1 million and loses significance when the dependent variable is restricted to cash compensation only.

In Table 6, we repeat the analysis from Table 5 but replace the officer dummy variable with four dummies indicating different levels of responsibility: (i) the CEO takes a "top three" post of CEO, president, or chairman; (ii) the CEO takes another executive position in top management, such as executive or senior vice president; (iii) the CEO becomes vice chairman of the board with no direct management responsibility; and (iv) the CEO becomes an officer of a division of the buyer (usually his old firm, which becomes a wholly owned subsidiary). The coefficient estimates on these dummy variables are rank-ordered in an intuitive way. CEOs who move into top positions in the buyer appear to forego the largest financial gains from the merger transaction, a result that makes sense because one expects them to earn greater future compensation from their new posts. Other executive officers sacrifice the second-most pay, followed by vice chairmen and subsidiary officers.

Our regression estimates of an inverse association between monetary gains and post-merger executive positions do not extend to directorships. Results in Table 5 indicate a weakly positive but insignificant association between target CEOs' financial gains and a dummy variable for whether they join the board of directors of the buyer.

We do not find the expected relation between CEO age and monetary benefits. In every specification of both tables, we estimate a positive and significant coefficient on the age variable, indicating the older CEOs extract greater financial gains from the merger transaction. Although older CEOs are sacrificing less future income by selling their firms, one might understand the regression estimate in several ways. Older CEOs might have greater tenure and influence over corporate governance, meaning that the age variable really serves as a proxy for their ability to obtain favorable compensation windfalls from their own boards of directors. Older CEOs also might seek greater personal financial gains from mergers because they will have fewer outside employment opportunities than their younger counterparts.

Further indications of CEO bargaining power have coefficient estimates clearly in line with our hypotheses. CEOs who own more stock, and CEOs from firms whose relative size is closer to the size of the buyer both succeed in extracting greater financial gains, according to estimates in both models, although the CEO stock ownership result loses significance in the model shown in the right column of each table, when the measurement of gains is restricted to merger-related cash payouts.

We explored alternative specifications of the models in tables 5 and 6 without any meaningful change in the results. We do not include estimates for several additional control variables which we might have expected to have significant estimates or affect other variables'

coefficients; these include officer and director stock ownership (in percent), a dummy variable for whether an exiting CEO obtains a CEO post in another firm, and various specifications of a variable measuring the size of the largest block of stock. None of these variables had significant estimates, and we exclude them from the final model to keep our tables to a reasonable length.

5.2 *Relation between CEO benefits and takeover premium to target shareholders*

Table 7 explores the relation between personal benefits received by target CEOs and the acquisition premia paid to their shareholders. We focus on benefits indicating extraordinary treatment of the CEO, and we deliberately omit appreciation of the CEO's stock and option holdings, since these gains will exhibit a lock-step positive association with the premium paid to all shareholders. Our main independent variables, used in the model in the first column of Table 7, are dummy variables for (i) whether the CEO's golden parachute is augmented at the time of the transaction; (ii) whether the CEO received additional merger-related payments such as consulting contracts or special bonuses; (iii) - (vi) four dummies indicating the level of executive position, if any, obtained by the CEO in the buyer; and (vii) whether the CEO joins the board of directors of the buyer. We also include a dummy variable that equals 1 if the target CEO leaves the firm and within two years becomes CEO of another firm.

As shown in the first column of Table 7, all seven of the dummy variables for CEO personal benefits have negative coefficient estimates, though all of these estimates are insignificant. The pattern also applies to the dummy variable for CEOs who obtain new CEO jobs in other firms. The negative coefficients are consistent with a conjecture that CEOs negotiate less

favorable acquisition terms for their own shareholders when the transaction includes special treatment of the CEO or in some way presents him with new career opportunities.

In the center column of Table 7, we estimate the same model but add together the seven key dummy variables. The coefficient on the sum of these dummies – equivalent to an F-based hypothesis test of whether their sum is significantly different from zero -- has a negative estimate, significant at the 8 percent level.

Finally, in the right column of Table 7, we repeat this analysis but restrict ourselves to the subsample of CEOs who own less than the median amount of equity (\$12.15 million) in their firms. We expect this group to be more predisposed in merger negotiations to trade off equity appreciation for personal benefits, since they stand to lose less financially than CEOs with greater ownership. With the regression limited to this subsample, the coefficient estimate for the sum of the seven dummy variables grows in magnitude by about 50 percent and becomes significant below the 5 percent level.

As with earlier parts of the analysis, we estimated other versions of the model in Table 7 that included officer and director stock ownership, a dummy variable for whether an exiting CEO obtains a CEO post in another firm, and various measures of block ownership. None of these variables had significant estimates or led to any noticeable change in our reported results.

6. Conclusions

We study the personal benefits obtained by target company CEOs in successful merger and acquisition transactions. Our research is motivated by frequent news reports of large agency conflicts in M&A bargaining situations.

The magnitude of the CEO wealth increases that we document appear roughly in line with the permanent income streams that they sacrifice by selling their firms. We find that target CEOs obtain wealth increases with a median of \$4 to \$5 million and a mean of \$8 to \$11 million. These financial benefits arise mostly from stock and option appreciation, though a majority of CEOs also receive substantial golden parachute payments. Some CEOs receive last-minute financial benefits when their boards of directors vote to approve mergers, as 12 percent have their golden parachutes increased and 28 percent receive a variety of additional cash bonuses. The extra payments, when made, typically add millions of dollars to the CEO's merger gains.

Regression analysis indicates an inverse association between the CEO's monetary benefits and their new status (if any) in the merged firm. About half of the target CEOs in our sample become officers of the buyer, with a handful ascending into top management positions. While these executives receive higher compensation than before, we find that their new positions are hazardous, with extremely high departure rates in the three years following completion of the transaction. A large majority of those executives who do lose their new jobs are compensated through large severance payments. Those CEOs who leave the firm usually end up retired or working outside the private sector; only a small minority of our sample obtain new CEO posts elsewhere.

We explore whether CEOs compromise the interests of their shareholders in those transactions in which they receive extraordinary personal benefits. Regression results provide some evidence of an inverse association between selling shareholder premia and such CEO benefits as positions in the buyer and unusual financial bonuses awarded at the time of the transaction.

References

- Agrawal, Anup, and Ralph A. Walkling, 1994, Executive careers and compensation surrounding takeover bids, *Journal of Finance* 49, 985-1014.
- Berkovitch, Elazar and Ronen Israel, 1996, The design of internal control and capital structure, *Review of Financial Studies* 9, 209-240.
- Burton, Thomas M. and Elyse Tanouye, 1998, Another drug industry megamerger goes bust, *The Wall Street Journal*, October 13.
- Cotter, James F. and Marc Zenner, 1994, How managerial wealth affects the tender offer process, *Journal of Financial Economics* 35, 63-97.
- Datta, Sudip, Mai Iskandar-Datta, and Kartik Raman, 2001, Executive Compensation and Corporate Acquisition Decisions, *Journal of Finance*, forthcoming.
- Fama, Eugene, 1980, Agency problems and the theory of the firm, *Journal of Political Economy* 88, 288-307.
- Fluck, Zsuzsanna, 1999, The dynamics of the management-shareholder conflict, *Review of Financial Studies* 12, 379-404.
- Gilson, Stuart C., 1990, Bankruptcy, boards, banks and blockholders: Evidence on changes in corporate ownership and control when firms default, *Journal of Financial Economics* 27, 355-387.
- Hadlock, Charles, Joel Houston, and Michael Ryngaert, 1999, The role of managerial incentives in bank acquisitions, *Journal of Banking and Finance* 23, 221-249.
- Harford, Jarrad, 2000, Takeover bids and target directors' incentives: Retention, experience, and settling up, unpublished manuscript, Lundquist School of Business, University of Oregon.
- Hechinger, John, 1999, BankBoston's CEO got safeguards in Fleet buyout, *The Wall Street Journal*, March 17.
- Lipin, Steven, 1996, In many merger deals, ego and pride play big roles in which way talks go, *The Wall Street Journal*, August 22.
- Martin, Kenneth J. and John J. McConnell, 1991, Corporate performance, corporate takeovers, and management turnover, *Journal of Finance* 46, 671-687.
- Mikkelson, Wayne H. and M. Megan Partch, 1989, Managers' voting rights and corporate control, *Journal of Financial Economics* 25, 263-290.

Mørck, Randall, Andrei Shleifer, and Robert W. Vishny, 1988, Characteristics of targets of hostile and friendly takeovers, in Alan J. Auerbach ed., *Corporate takeovers: Causes and consequences*, University of Chicago Press, Chicago, IL.

Palepu, Krishna G., 1986, Predicting takeover targets: A methodological and empirical analysis, *Journal of Accounting and Economics* 8, 3-35.

Parrino, Robert, 1977, CEO turnover and outside succession: A cross-sectional analysis, *Journal of Financial Economics* 46, 165-197.

Salpukas, Agis, 1999, Texaco rejects Chevron's merger proposal, *The New York Times*, June 3.

Schwert, G. William, 2000, Hostility in takeovers: In the eyes of the beholder? *Journal of Finance* 55, 2599-2640.

Shivdasani, Anil, 1993, Board composition, ownership structure, and hostile takeovers, *Journal of Accounting and Economics* 16, 167-198.

Shivdasani, Anil and David Yermack, 1999, CEO involvement in the selection of new board members: An empirical analysis, *Journal of Finance* 54, 1829-1853.

Stulz, René, 1988, Managerial control of voting rights: Financing policies and the market for corporate control, *Journal of Financial Economics* 20, 25-54.

Walkling, Ralph A. and Michael S. Long, 1984, Agency theory, managerial welfare and takeover bid resistance, *RAND Journal of Economics* 15, 54-68.

Wulf, Julie, 2001, Do CEOs of Target Firms Trade Power for Premiums? Evidence from "Mergers of Equals," unpublished manuscript, Wharton School, University of Pennsylvania.

Figure 1
Post-merger career paths of target CEOs

Career paths of CEOs of 311 large firms that are acquired between 1995 and 1997. The first node shows the probability of the target CEO remaining employed by the buyer at the time of the merger. The second node shows, for those CEOs who survived the merger, the probability of remaining employed represent various job titles and positions, along with summary statistics about the CEOs who reach those posts. Wealth Increase represents the gains from stock and option appreciation, golden parachutes, and other bonus payments as described more fully in the text. The sample is identified from the Securities Data Corporation database, and information about CEOs is obtained from proxy statements and other SEC filings.

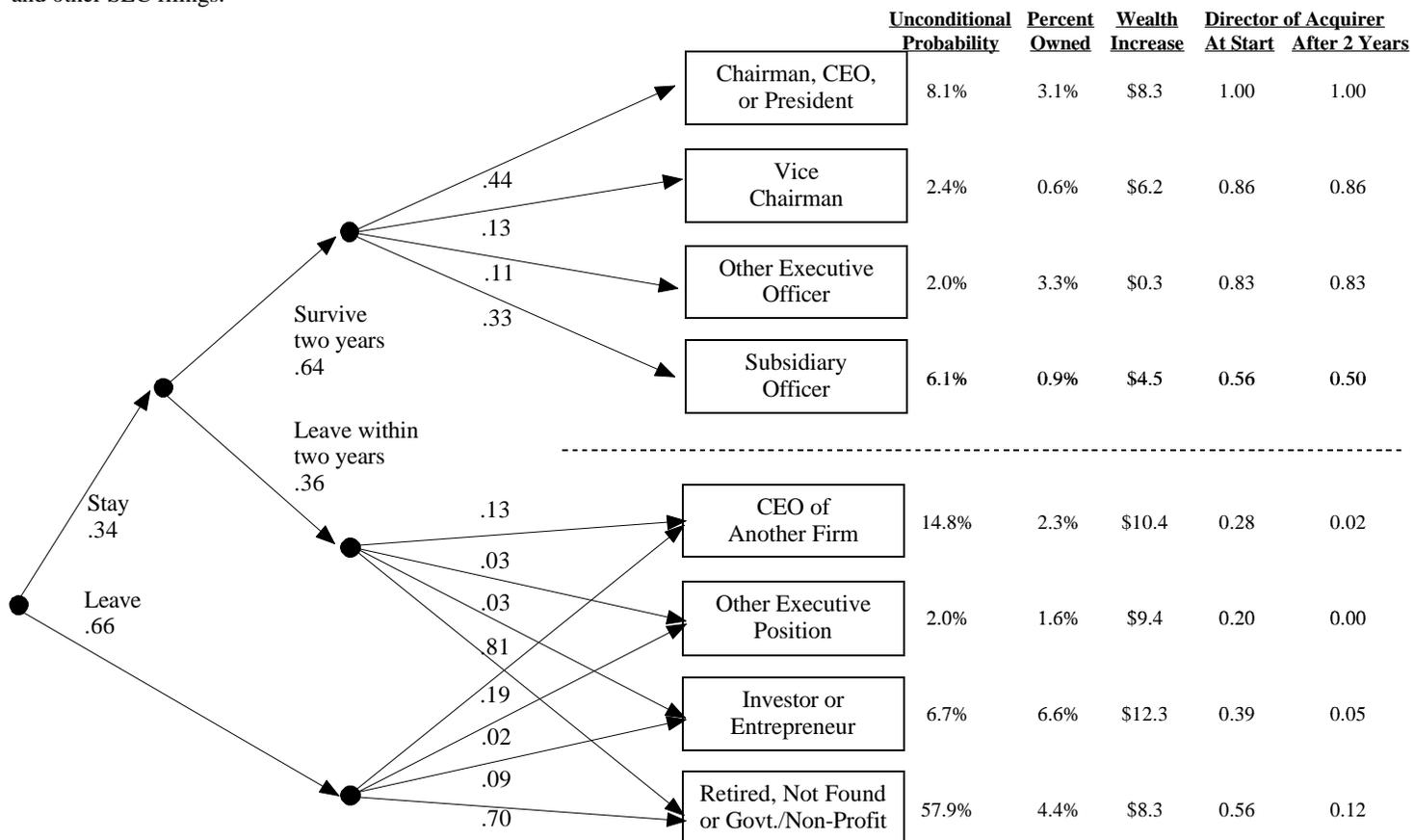


Table 1
 Characteristics of CEOs of acquired companies

Descriptive statistics about the ownership, compensation, and other characteristics of CEOs of acquired companies. The sample includes 311 large firms acquired between 1995 and 1997. The sample is identified from databases maintained by Securities Data Corporation. Information about CEOs and their firms is obtained from proxy statements filed during the last year prior to the transaction. The dummy variables for separate chairman and separate president equal one if a person other than the CEO serves in these positions.

Variable	Mean	Median	Max	Obs
CEO shares/shares outstanding	0.036	0.008	0.506	285
CEO total options/shares outstanding	0.016	0.011	0.211	285
CEO salary prior to acquisition	423,322	351,489	2,493,795	289
CEO bonus prior to acquisition	374,559	170,000	5,965,313	289
CEO age	53.886	54.000	74.000	290
CEO tenure less than 5 years dummy	0.496	0.000	1.000	290
Separate president dummy	0.285	0.000	1.000	298
Separate chairman dummy	0.305	0.000	1.000	298

Table 2
Transaction characteristics

Descriptive statistics about the acquisitions of 311 large firms between 1995 and 1997. Information is obtained from databases maintained by Securities Data Corporation and the Center for Research in Securities Prices. The value of target and buyer firms is measured one month prior to the date of the first offer. The premium received by target shareholders is calculated relative to the transaction announcement date. SDC premium calculations assume that the transaction is completed according to terms announced in the merger agreement. CRSP premium calculations are based on actual market prices of the target's stock.

Variable	Mean	Median	Max	Obs
Target value prior to the offer (000)	1,267,330	385,680	21,445,802	309
Buyer value prior to the offer (000)	3,344,627	1,279,235	51,196,340	309
Target value/buyer value	0.442	0.317	3.020	309
Unsolicited dummy	0.026	0.000	1.000	309
Total premium four weeks, SDC data	0.348	0.304	1.259	308
Stock return, two days, CRSP data	0.155	0.137	0.854	309
Stock return, 20 days, CRSP data	0.227	0.211	1.412	309

Table 3
Gains received by target CEOs

Wealth increases and governance considerations obtained by the CEOs of target firms. The sample includes 311 large firms acquired between 1995 and 1997. Information is obtained from Form S-4 or similar documents filed with the SEC at the time of the acquisition. Gains in the value of CEO stock holdings are computed using four-week premiums as measured by both the SDC and CRSP databases. Option gains are calculated similarly using an assumption that all options are at- or in-the-money prior to the transaction. Golden parachute payments are calculated based on information from the target company's last proxy statement filed prior to the transaction. Augmented parachutes and deal bonuses represent additional payments awarded to CEOs at the time of the acquisition.

Panel A: Monetary gains

Variable	Mean	Median	Max	Obs
Stock gains				
Share gains (use 20 day CRSP return)	4,247,863	1,338,146	129,100,000	290
Option gains (use 20 CRSP return)	656,451	229,908	8,267,318	283
Cash compensation				
Parachute	1,465,251	900,000	24,976,764	277
Augmentation of parachute	393,545	0	36,944,986	272
Additional bonus	1,201,011	0	60,000,000	272
Parachute dummy	0.690	1.000	1.000	277
Augmentation of parachute dummy	0.121	0.000	1.000	272
Additional bonus dummy	0.279	0.000	1.000	272
Total gains				
Total gains (20 day CRSP stock return)	8,117,406	3,830,462	132,360,000	243
Total gains (four week SDC premium)	11,767,526	5,320,657	217,750,000	242
Total gains/Salary+bonus (20 day return)	10.175	6.440	118.200	242
Total gains/Salary+bonus (four week premium)	15.956	8.789	200.370	241

Panel B: Other gains

Variable	Mean	Median	Max	Obs
CEO remains as officer	0.503	1.000	1.000	290
CEO remains as director	0.571	1.000	1.000	289
Number of target members on new board	2.314	2.000	15.000	287
Target board members/new buyer board size	0.176	0.167	0.545	285
Buyer changes name	0.147	0.000	1.000	279

Table 4
Status of target CEOs who become officers and directors of the buyer

Compensation and subsequent employment status of CEOs of target firms who accept positions with the acquiror. The sample includes 311 large firms acquired between 1995 and 1997. Information is obtained from Proxy Statements filed with the SEC for the three years following the acquisition.

Panel A: CEO status

Variable	Mean	Med	Max	Obs
CEO remains as officer after 1 year	0.344	0.000	1.000	311
Frequency of CEO surviving 1 year as officer	0.671	1.000	1.000	167
CEO remains as director after 1 year	0.428	0.000	1.000	311
Frequency of CEO surviving 1 year as director	0.776	1.000	1.000	165
Change in CEO salary	1.176	1.086	6.752	98
Change in CEO bonus	1.343	1.194	4.982	83
CEO receiving severance in year 1 dummy	0.132	0.000	1.000	281
Severance paid in year 1	3,770,864	1,500,000	30,000,000	37

Panel B: Departure rate by CEO new position at new firm

New position after the merger	Cumulative departure rate of target CEO			Obs
	One year	Two years	Three years	
CEO, President, Chairman	0.231	0.495	0.673	52
Other executive officer	0.333	0.500	0.700	21
Executive in a subsidiary	0.255	0.627	0.783	51
Vice chairman	0.593	0.715	0.857	27

Table 5
CEO monetary gains and offer characteristics

Ordinary least squares estimates of monetary gains obtained by CEOs in a sample of 311 large firms acquired between 1995 and 1997. The dependent variable in the left column includes gains from equity appreciation, option appreciation, golden parachutes, augmented parachutes, and additional merger-related bonuses. The dependent variable in the right column includes gains from parachutes and bonuses only. The market capitalization of target and buyer firms is measured one month prior to the first offer made by the buyer. Excess return on the target's year -1 is measured over the one year period ending 20 days prior to the announcement of the merger. Excess return is relative to the CRSP value weighted index. Data is obtained from Proxy Statements, Forms S-4, and similar SEC filings.

	Merger gains, total	Merger gains, cash
Intercept	-24,453,886 ^a (3.38)	-5,187,773 (1.48)
Target CEO remains as an officer	-4,077,630 ^c (1.93)	-1,128,511 (1.10)
Target CEO remains as director	1,870,238 (0.87)	484,722 (0.47)
CEO age	487,667 ^a (3.82)	115,972 ^c (1.88)
Target value/buyer value	4,003,761 (1.57)	1,980,332 (1.60)
Target value prior to acquisition	1.79 ^a (5.33)	0.95 ^a (5.87)
CEO shares/shares outstanding	75,136,933 ^a (5.96)	3,515,281 (0.58)
Excess return on target year -1	4,265,199 ^c (1.90)	904,807 (0.83)
Observations	239	239
Adj R ²	0.256	0.160

a,b,c denotes significantly different from zero at the 1, 5, and 10 percent levels.

Table 6
CEO monetary gains

Ordinary least squares estimates of monetary gains obtained by CEOs in a sample of 311 large firms acquired between 1995 and 1997. The dependent variable in the left column includes gains from equity appreciation, option appreciation, golden parachutes, augmented parachutes, and additional merger-related bonuses. The dependent variable in the right column includes gains from parachutes and bonuses only. The market capitalization of target and buyer firms is measured one month prior to the first offer made by the buyer. Data is obtained from Proxy Statements, Forms S-4, and similar SEC filings.

	Merger gains, total	Merger gains, cash
Intercept	-23,432,305 ^a (3.18)	-4,884,797 (1.38)
Target CEO remains in top 3 position	-4,897,418 ^c (1.93)	-2,244,855 ^c (1.84)
Target CEO remains executive officer	-4,750,423 (1.42)	-1,269,654 (0.79)
Target CEO remains as vice chairman	-2,313,109 (0.69)	787,225 (0.49)
Target CEO remains as officer of subsidiary	-1,553,054 (0.63)	-283,777 (0.24)
CEO age	475,991 ^a (3.67)	110,375 ^c (1.77)
Target value/buyer value	4,650,893 ^c (1.82)	2,379,402 ^c (1.93)
Target value prior to acquisition	1.88 ^a (5.46)	0.99 ^a (5.97)
CEO shares/shares outstanding	73,549,883 ^a (5.83)	2,881,682 (0.47)
Excess return on target year -1	3,969,703 ^c (1.77)	784,409 (0.73)
Observations	241	241
Adj R ²	0.250	0.164

a,b,c denotes significantly different from zero at the 1, 5, and 10 percent levels.

Table 7
Trade off between CEO gains and shareholders premium

Ordinary least squares estimates of shareholder's stock premium in a sample of 311 large firms acquired between 1995 and 1997. The dependent variable is equals the return to target shareholders over the 20-day period up to and including the acquisition announcement date. Regressions in the left and middle columns includes then entire sample. Regression in the right columns include the subsample where the total value of shares and options held by the CEO is below the sample median \$12.15 million.

	Target return, 20 days		
	Full sample	Low CEO holdings	
Intercept	0.0207 (0.17)	-0.0107 (0.09)	-0.0061 (0.04)
Sum of all CEO benefit dummies		-0.0248 ^c (1.73)	-0.0382 ^b (2.14)
Augmentation of parachute dummy	-0.0296 (0.70)		
Additional bonus dummy	-0.0282 (0.92)		
Target CEO remains in top 3 position	-0.0134 (0.30)		
Target CEO remains executive officer	-0.0710 (1.28)		
Target CEO remains as vice chairman	-0.0065 (0.12)		
Target CEO remains as officer of subsidiary	-0.0212 (0.55)		
Target CEO remains as director	-0.0279 (0.80)		
CEO age	0.0050 ^b (2.44)	0.0055 ^a (2.79)	0.0066 ^b (2.46)
Target value/buyer value	-0.0733 ^c (1.87)	-0.0697 ^c (1.89)	-0.0858 (1.55)
CEO shares/shares outstanding	0.1406 (0.71)	0.1537 (0.79)	-1.1442 (1.00)
CEO (shares+options)*price, (millions)	-0.0003 ^c (1.86)	-0.0003 ^c (1.89)	-0.0007 (0.13)
Unsolicited dummy	0.1263 (1.41)	0.1339 (1.52)	0.1180 (1.19)
CEO of another firm	-0.0379 (0.96)	-0.0353 (0.92)	-0.0457 (0.84)
Excess return on target year -1	0.0623 ^c (1.81)	0.0630 ^c (1.86)	0.0129 (0.31)
Observations	252	252	126
Adj R ²	0.052	0.070	0.081

a,b,c denotes significantly different from zero at the 1, 5, and 10 percent levels.